

## CLAIMS:

1. (currently amended) A modular swimming pool water heating system comprising a ~~first~~ casing for mounting in an attic of a building;  
a heat exchange unit ~~removably mounted for removable mounting~~ in said ~~first~~ casing;  
an opening in said ~~first~~ casing permitting access to the interior of the ~~first~~ casing for receiving said heat exchanger when the casing is mounted in an attic;  
a cover removably mounted on said casing for closing said opening, whereby said heat exchange unit can readily be mounted in said casing;  
an inlet manifold on said heat exchanger for introducing swimming pool water into said heat exchanger, said inlet manifold extending through said cover on said ~~first~~ casing when the ~~first~~ casing is closed;  
an outlet manifold on said heat exchanger for returning water to a swimming pool, said outlet manifold extending through said cover on said ~~first~~ casing when the ~~first~~ casing is closed;  
inlet sleeves for removable attachment to one side of said ~~first~~ casing for introducing air into the casing;  
fan units for removable mounting on a second side of said ~~first~~ casing opposite said one side for drawing air into said ~~first~~ casing and through said heat exchange unit; and

elongated, flexible, ducts for connection to said inlet sleeves for receiving warm attic air from locations remote from said first casing and feeding said air to said first casing for passage through said heat exchange unit to heat any pool water circulating therethrough.

2. (original) The system of claim 1, including:

a first sensor for monitoring the temperature of air in an attic;

a second sensor for monitoring the temperature of water flowing from a swimming pool through said heat exchanger; and

a controller connected to both said sensors and said fan units for actuating the fan units only when the difference between the temperatures monitored by said first and second sensors reaches a predetermined level.

3. (original) The system of claim 2, wherein said predetermined level is approximately 20°F.